

IN THE CLAIMS

Please amend the claims as follows:

1. (original) A radio repeater (8) for use in a short range radio communication system (1), the repeater (8) comprising a receiver for receiving a signal in a first frequency band and a transmitter for transmitting the signal in a second frequency band.

2. (original) The radio repeater (8) of claim 1, wherein the transmitter transmits the signal over a maximum range shorter than the maximum range of typical communication devices (5,6) intended to operate in the radio communication system (1).

3. (currently amended) The radio repeater (8) of claim 1 or ~~claim 2~~, wherein the transmitter transmits the signal over a maximum range of around 1m or less.

4. (currently amended) The radio repeater (8) of ~~any one of the preceding claims~~ claim 1, wherein the transmitter transmits the signal at power less than the power of typical communication devices (5,6) intended to operate in the radio communication system (1).

5. (currently amended) The radio repeater (8) of ~~any one of~~
~~the preceding claims~~claim 1, wherein the first frequency band is
the designated band of a short range wireless connectivity
standard.

6. (currently amended) The radio repeater (8) of ~~any one of~~
~~the preceding claims~~claim 1, wherein the second frequency band is
at a lower frequency than the first frequency band.

7. (currently amended) The radio repeater (8) of ~~any one of~~
~~the preceding claims~~claim 1, further comprising a means (12) for
shifting the signal from the first frequency band to the second
frequency band.

8. (original) The radio repeater (8) of claim 7, wherein
the signal is shifted by a constant frequency offset.

9. (currently amended) The radio repeater (8) of ~~any one of~~
~~the preceding claims~~claim 1, comprising a filter (10) for filtering
signals received in the first frequency band to remove signals and
noise that may interfere with a signal received from a first
communication device (5,6) when transmitted by the repeater (8).

10. (currently amended) The radio repeater (8) of ~~any one of~~
~~the preceding claims~~claim 1, comprising means for identifying the
channel in which a/the first communication device (5,6) is
transmitting the signal and filtering (the) signals received in the
first frequency band to receive the signal in the channel.

11. (currently amended) The radio repeater (8) of ~~any one of~~
~~the preceding claims~~claim 1, wherein the repeater (8) only
transmits when it receives a signal in the first frequency band
above a given signal strength.

12. (currently amended) The radio repeater (8) of ~~any one of~~
~~the preceding claims~~claim 1 capable of being worn on or attached to
the body or clothing of a user (4).

13. (currently amended) A short range radio communication
(1) system comprising:

a first communication device (5,6) for transmitting the signal
in the first frequency band;

the repeater (8) of ~~any one of the preceding claims~~claim 1;
and

a second communication device (5,6) for receiving the signal
in the first frequency band or the second frequency band.

14. (original) The short range radio communication (1) system of claim 13, wherein the second communication device (5,6) selects to receive the signal in the second frequency band when the quality of the signal in the first frequency band is poor.

15. (original) A method of repeating a signal in a short range radio communication system (1), the method comprising receiving a signal in a first frequency band and transmitting the signal in a second frequency band.

16. (original) The method of claim 15, comprising transmitting the signal over a maximum range shorter than the maximum range of typical communication devices (5,6) intended to operate in the radio communication system (1).

17. (currently amended) The method of claim 15 or claim 16, comprising transmitting the signal over a maximum range of around 1m or less.

18. (currently amended) The method of any one of claims 15 to 17, comprising transmitting the signal at power less

than the power of typical communication devices (5,6) intended to operate in the radio communication system (1).

19. (currently amended) The method of ~~any one of claims~~ 15
~~to~~ 18claim 15, wherein the first frequency band is the designated band of a short range wireless connectivity standard.

20. (currently amended) The method of ~~any one of claims~~ 15
~~to~~ 19claim 15, wherein the second frequency band is at a lower frequency than the first frequency band.

21. (currently amended) The method of ~~any one of claims~~ 15
~~to~~ 20claim 15, comprising shifting the signal from the first frequency band to the second frequency band.

22. (original) The method of claim 21, comprising shifting the signal by a constant frequency offset.

23. (currently amended) The method of ~~any one of claims~~ 15
~~to~~ 22claim 15, comprising filtering signals received in the first frequency band to remove signals and noise that may interfere with a signal received from a first communication device when transmitted by the repeater.

24. (currently amended) The method of ~~any one of claim 15 to~~
~~23~~claim 15, comprising identifying the channel in which a/the first communication device (5,6) is transmitting the signal and filtering (the) signals received in the first frequency band to receive the signal in the channel.

25. (currently amended) The method of ~~any one of claims 15 to~~
~~24~~claim 15, comprising only transmitting a signal when a signal is received in the first frequency band above a given signal strength.

26. (currently amended) A method of short range radio communication comprising:

transmitting the signal in the first frequency band;
repeating the radio signal using the method of ~~any one of~~
~~claims 15 to~~25~~claim 15~~; and
receiving the signal in the first frequency band or the second frequency band.

27. (original) The method of claim 26, comprising selecting to receiving the signal in the second frequency band when the quality of the signal in the first frequency band is poor.